

Herbicide Programs for Conventional Corn

Arlington, WI 2022

Trial Information

Trial Sponsor: Wisconsin Cropping Systems Weed Science

Objective: Evaluate various corn herbicide programs for season long weed control in conventional corn

Crop: Corn

Hybrid: Dekalb DKC 54-36

Weed species (pressure): woolly cupgrass (very high)
giant foxtail (moderate-high)

Herbicide Application(s): PRE – 5/10

POST – 6/2 (V4 corn)

For the full report see trial #22-ARL-CN12 in the [2022 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

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Trt #	Herbicide (rate acre ⁻¹)	Annual Grasses ^c				Yield ^b bu acre ⁻¹
		5/31	6/15	6/30	10/4	
1	Untreated Check	0	0	0	0	3 d
Two-Pass – PRE (5/10) <i>fb</i> POST (6/2)		POST				
2	Harness MAX (2 qt) <i>fb</i> Capreno (3 oz) + Superb HC 0.5% v/v + AMS (2 lb)	39	77	63	64	83 bc
3	Harness MAX (2 qt) <i>fb</i> Diflexx Duo (28 oz) + COC 1% v/v + AMS (2 lb)	50	78	70	68	93 ab
4	Acuron Flexi (1.1 qt) <i>fb</i> Acuron Flexi (1.1 qt) + NIS 0.25% v/v + AMS (2 lb)	23	43	34	49	32 cd
5	Verdict (16 oz) <i>fb</i> Armezon (1 oz) + Status (5 oz) + MSO 1% v/v + AMS (2 lb)	29	89	83	71	120 ab
6	Verdict (10 oz) + Callisto (3 oz) <i>fb</i> Armezon PRO (16 fl oz) + MSO 1% v/v + AMS (2 lb)	23	73	66	67	62 bc
7	Surestart II (2 pt) <i>fb</i> Accent Q (0.9 oz) + Status (5 oz) + COC 1% v/v + AMS (2 lb)	34	72	72	71	85 abc
8	Harness (2 pt) + Princep 4L (1 qt) <i>fb</i> Revulin Q (4 oz) + Status (5 oz) + COC 1% v/v + AMS (2 lb)	51	87	78	68	119 ab
9	Harness (2 pt) + Princep 4L (1 qt) <i>fb</i> Revulin Q (4 oz) + Status (5 oz) + Zidua SC (3 oz) + COC 1% v/v + AMS (2 lb)	49	82	77	71	115 ab
10	Harness (2 pt) + Princep 4L (1 qt) <i>fb</i> Shieldex (1 oz) + Accent Q (0.9 oz) + COC 1% v/v + AMS (2 lb)	59	82	79	70	117 ab
11	Harness (2 pt) + Princep 4L (1 qt) <i>fb</i> Laudis (3 oz) + Warrant (48 oz) + MSO 1% v/v + AMS (2 lb)	47	93	89	79	141 a
12	Dual II Magnum (1.67 pt) + Princep 4L (1 qt) <i>fb</i> Callisto (3 oz) + Status (5 oz) + COC 1% v/v + AMS (2 lb)	35	64	57	55	56 bc
		LSD ($\alpha=0.10$)	10	11	13	ns
		p value	<.001	<.001	<.001	0.169
			37			<0.001

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

^cAnnual grass species in the trial consisted of woolly cupgrass (predominant species) and giant foxtail. Grass ratings most accurately reflect woolly cupgrass control.

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Plot pictures taken on 5/31
21 days after the PRE application
2 days before the POST application

The number in the upper right-hand corner is the average %
woolly cupgrass control of 4 replications

21 days after PRE (5/31)
Untreated Check

0%



**21 days after PRE (5/31)
PRE: 2 qt Harness MAX**

45%



**21 days after PRE (5/31)
PRE: 1.1 qt Acuron Flexi**

23%



21 days after PRE (5/31)

PRE: 16 fl oz Verdict

29%



21 days after PRE (5/31)

PRE: 10 fl oz Verdict + 3 fl oz Callisto

23%



21 days after PRE (5/31)

PRE: 2 pt SureStart II

34%



21 days after PRE (5/31)

52%

PRE: 2 pt Harness + 1 qt Princep 4L



21 days after PRE (5/31)

35%

PRE: 1.67 pt Dual II Magnum + 1 qt Princep 4L



Herbicide Programs for Conventional Corn

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Plot pictures taken on 6/15

36 days after the PRE application
13 days after the POST application

The number in the upper right-hand corner is the average %
woolly cupgrass control of 4 replications

36 days after PRE (6/15)

0%

Untreated Check



13 days after POST (6/15)

PRE: 2 qt Harness MAX *fb*

POST: 3 fl oz Capreno + 0.5% Superb HC + 2 lb AMS

77%



13 days after POST (6/15)

PRE: 2 qt Harness MAX fb

POST: 28 fl oz Diflexx Duo + 1% COC + 2 lb AMS

78%



13 days after POST (6/15)

PRE: 1.1 qt Acuron Flexi

POST: 1.1 qt Acuron Flexi + 0.25% NIS + 2 lb AMS

43%



13 days after POST (6/15)

PRE: 16 fl oz Verdict

89%

POST: 1 fl oz Armezon + 5 oz Status + 1% MSO + 2 lb AMS



13 days after POST (6/15)

PRE: 10 fl oz Verdict + 3 fl oz Callisto

73%

POST: 16 fl oz Armezon PRO + 1% MSO + 2 lb AMS



13 days after POST (6/15)

PRE: 2 pt SureStart II

POST: 0.9 oz Accent Q + 5 oz Status + 1% COC + 2 lb AMS

72%



13 days after POST (6/15)

PRE: 2 pt Harness + 1 qt Princep 4L

87%

POST: 4 oz Revulin Q + 5 oz Status + 1% COC + 2 lb AMS



13 days after POST (6/15)

PRE: 2 pt Harness + 1 qt Princep 4L

82%

POST: 4 oz Revulin Q + 5 oz Status + 3 fl oz Zidua SC + 1% COC + 2 lb AMS



13 days after POST (6/15)

PRE: 2 pt Harness + 1 qt Princep 4L

82%

POST: 1 fl oz Shieldex + 0.9 oz Accent Q + 1% COC + 2 lb AMS



13 days after POST (6/15)

PRE: 2 pt Harness + 1 qt Princep 4L

93%

POST: 3 fl oz Laudis + 48 fl oz Warrant+ 1% MSO + 2 lb AMS



13 days after POST (6/15)

PRE: 1.67 pt Dual II Magnum + 1 qt Princep 4L

64%

POST: 3 fl oz Callisto + 5 oz Status + 1% COC + 2 lb AMS



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Plot pictures taken on 6/30

51 days after the PRE application
28 days after the POST application

The number in the upper right-hand corner is the average %
woolly cupgrass control of 4 replications

51 days after PRE (6/30)

Untreated Check

0%



28 days after POST (6/30)

PRE: 2 qt Harness MAX fb

POST: 3 fl oz Capreno + 0.5% Superb HC + 2 lb AMS

63%



28 days after POST (6/30)

PRE: 2 qt Harness MAX fb

POST: 28 fl oz Diflexx Duo + 1% COC + 2 lb AMS

70%



28 days after POST (6/30)

PRE: 1.1 qt Acuron Flexi

POST: 1.1 qt Acuron Flexi + 0.25% NIS + 2 lb AMS

34%



28 days after POST (6/30)

PRE: 16 fl oz Verdict

83%

POST: 1 fl oz Armezon + 5 oz Status + 1% MSO + 2 lb AMS



28 days after POST (6/30)

PRE: 10 fl oz Verdict + 3 fl oz Callisto

66%

POST: 16 fl oz Armezon PRO + 1% MSO + 2 lb AMS



28 days after POST (6/30)

PRE: 2 pt SureStart II

POST: 0.9 oz Accent Q + 5 oz Status + 1% COC + 2 lb AMS

72%



28 days after POST (6/30)

PRE: 2 pt Harness + 1 qt Princep 4L

78%

POST: 4 oz Revulin Q + 5 oz Status + 1% COC + 2 lb AMS



28 days after POST (6/30)

PRE: 2 pt Harness + 1 qt Princep 4L

77%

POST: 4 oz Revulin Q + 5 oz Status + 3 fl oz Zidua SC + 1% COC + 2 lb AMS



28 days after POST (6/30)

PRE: 2 pt Harness + 1 qt Princep 4L

79%

POST: 1 fl oz Shieldex + 0.9 oz Accent Q + 1% COC + 2 lb AMS



28 days after POST (6/30)

PRE: 2 pt Harness + 1 qt Princep 4L

89%

POST: 3 fl oz Laudis + 48 fl oz Warrant+ 1% MSO + 2 lb AMS



28 days after POST (6/30)

PRE: 1.67 pt Dual II Magnum + 1 qt Princep 4L

57%

POST: 3 fl oz Callisto + 5 oz Status + 1% COC + 2 lb AMS

